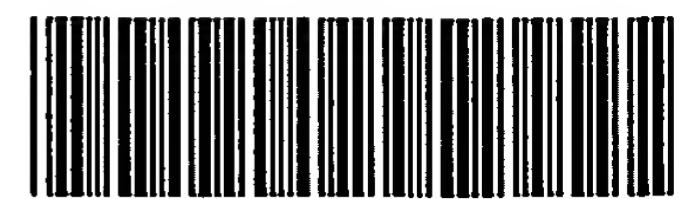


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/528,014A
Source: IFW/b
Date Processed by STIC: 2-1-05

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 02/01/2005
 PATENT APPLICATION: US/09/528,014A TIME: 11:39:15

Input Set : A:\C481011.app
 Output Set: N:\CRF4\02012005\I528014A.raw

3 <110> APPLICANT: Barany, Francis
 4 Day, Joseph P.
 5 Hammer, Robert P.
 6 Bergstrom, Donald E.
 8 <120> TITLE OF INVENTION: COUPLED POLYMERASE CHAIN REACTION-RESTRICTION
 9 ENDONUCLEASE DIGESTION-LIGASE DETECTION REACTION
 10 PROCESS
 12 <130> FILE REFERENCE: 19603/481
 14 <140> CURRENT APPLICATION NUMBER: 09/528,014A
 15 <141> CURRENT FILING DATE: 2000-03-17
 17 <150> PRIOR APPLICATION NUMBER: 60/125,251
 18 <151> PRIOR FILING DATE: 1999-03-19
 20 <160> NUMBER OF SEQ ID NOS: 36
 22 <170> SOFTWARE: PatentIn Ver. 2.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 50
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial Sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 31 Oligonucleotide
 33 <400> SEQUENCE: 1
 34 tgtgatgatg gtgaggatgg gcctccgggtt catgccgccc atcgaggaac 50
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 50
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Artificial Sequence
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 44 Oligonucleotide
 46 <400> SEQUENCE: 2
 47 gttcctgcat gggccggatg aaccggaggc ccatcctcac catcatcaca 50
 50 <210> SEQ ID NO: 3
 51 <211> LENGTH: 25
 52 <212> TYPE: DNA
 53 <213> ORGANISM: Artificial Sequence
 55 <220> FEATURE:
 56 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 57 Oligonucleotide
 59 <220> FEATURE:
 60 <221> NAME/KEY: N_region
 61 <222> LOCATION: (25)
 62 <223> OTHER INFORMATION: Where N is A,C,T,G or Q(n) analog

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/528,014A

DATE: 02/01/2005
 TIME: 11:39:15

Input Set : A:\C481011.app
 Output Set: N:\CRF4\02012005\I528014A.raw

64 <400> SEQUENCE: 3
 W--> 65 ttcttcctgc atggcggca tgaan 25
 68 <210> SEQ ID NO: 4
 69 <211> LENGTH: 26
 70 <212> TYPE: DNA
 71 <213> ORGANISM: Artificial Sequence
 73 <220> FEATURE:
 74 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 75 Oligonucleotide
 77 <220> FEATURE:
 78 <221> NAME/KEY: N_region
 79 <222> LOCATION: (26)
 80 <223> OTHER INFORMATION: Where N is A,C,T,G or Q(n) analog
 82 <400> SEQUENCE: 4
 W--> 83 ttctgtatgtat ggtgaggatg ggcctn 26
 86 <210> SEQ ID NO: 5
 87 <211> LENGTH: 40
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Artificial Sequence
 91 <220> FEATURE:
 92 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 93 Oligonucleotide
 95 <400> SEQUENCE: 5
 96 cttggacgag ttcatacgcg ttcctgcattt ggcggcatga 40
 99 <210> SEQ ID NO: 6
 100 <211> LENGTH: 38
 101 <212> TYPE: DNA
 102 <213> ORGANISM: Artificial Sequence
 104 <220> FEATURE:
 105 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 106 Oligonucleotide
 108 <400> SEQUENCE: 6
 109 gcaaactggg tcgccacgtt atgatggta ggatgggc 38
 112 <210> SEQ ID NO: 7
 113 <211> LENGTH: 19
 114 <212> TYPE: DNA
 115 <213> ORGANISM: Artificial Sequence
 117 <220> FEATURE:
 118 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 119 Oligonucleotide
 121 <400> SEQUENCE: 7
 122 cttggacgag ttcatacgc 19
 125 <210> SEQ ID NO: 8
 126 <211> LENGTH: 17
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Artificial Sequence
 130 <220> FEATURE:
 131 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 132 Oligonucleotide

RAW SEQUENCE LISTING DATE: 02/01/2005
PATENT APPLICATION: US/09/528,014A TIME: 11:39:15

Input Set : A:\C481011.app
Output Set: N:\CRF4\02012005\I528014A.raw

134 <400> SEQUENCE: 8
135 gcaaactggg tcggcac 17
138 <210> SEQ ID NO: 9
139 <211> LENGTH: 42
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
145 Oligonucleotide
147 <400> SEQUENCE: 9
148 cttggacgag ttcatacgcg ttcctgcattt ggcggcatga at 42
151 <210> SEQ ID NO: 10
152 <211> LENGTH: 41
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
158 Oligonucleotide
160 <400> SEQUENCE: 10
161 gcaaactggg tcggcacgtt atgatggtga ggatgggcct t 41
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 24
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
171 Oligonucleotide
173 <400> SEQUENCE: 11
174 aaaaaagcat gggcgcatg aaca 24
177 <210> SEQ ID NO: 12
178 <211> LENGTH: 22
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
184 Oligonucleotide
186 <400> SEQUENCE: 12
187 aaaagcatgg gcggcatgaa cg 22
190 <210> SEQ ID NO: 13
191 <211> LENGTH: 20
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
197 Oligonucleotide
199 <400> SEQUENCE: 13
200 aagcatgggc ggcattttttt 20
203 <210> SEQ ID NO: 14
204 <211> LENGTH: 18

RAW SEQUENCE LISTING DATE: 02/01/2005
 PATENT APPLICATION: US/09/528,014A TIME: 11:39:15

Input Set : A:\C481011.app
 Output Set: N:\CRF4\02012005\I528014A.raw

205 <212> TYPE: DNA
 206 <213> ORGANISM: Artificial Sequence
 208 <220> FEATURE:
 209 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 210 Oligonucleotide
 212 <400> SEQUENCE: 14
 213 gcatgggcgg catgaacc 18
 216 <210> SEQ ID NO: 15
 217 <211> LENGTH: 22
 218 <212> TYPE: DNA
 219 <213> ORGANISM: Artificial Sequence
 221 <220> FEATURE:
 222 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 223 Oligonucleotide
 225 <400> SEQUENCE: 15
 226 ggaggcccat cctcaccatc at 22
 229 <210> SEQ ID NO: 16
 230 <211> LENGTH: 60
 231 <212> TYPE: DNA
 232 <213> ORGANISM: Artificial Sequence
 234 <220> FEATURE:
 235 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 236 Oligonucleotide
 238 <220> FEATURE:
 239 <221> NAME/KEY: N_region
 240 <222> LOCATION: (30)
 241 <223> OTHER INFORMATION: Where N is A,C,T,G
 243 <400> SEQUENCE: 16
 W--> 244 ccaagtatg atggtgagga tgggcctccn gttcatgccg cccatgcagg aacgcgtatg 60
 247 <210> SEQ ID NO: 17
 248 <211> LENGTH: 50
 249 <212> TYPE: DNA
 250 <213> ORGANISM: Artificial Sequence
 252 <220> FEATURE:
 253 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 254 Oligonucleotide
 256 <400> SEQUENCE: 17
 257 gttcctgcat gggcgcatg aactggaggc ccatcctcac catcatcaca 50
 260 <210> SEQ ID NO: 18
 261 <211> LENGTH: 50
 262 <212> TYPE: DNA
 263 <213> ORGANISM: Artificial Sequence
 265 <220> FEATURE:
 266 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 267 Oligonucleotide
 269 <400> SEQUENCE: 18
 270 gttcctgcat gggcgcatg aacgggaggc ccatcctcac catcatcaca 50
 273 <210> SEQ ID NO: 19
 274 <211> LENGTH: 50

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/528,014A

DATE: 02/01/2005

TIME: 11:39:15

Input Set : A:\C481011.app

Output Set: N:\CRF4\02012005\I528014A.raw

275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
280 Oligonucleotide
282 <400> SEQUENCE: 19
283 gttcctgcat gggcggcatg aacaggaggc ccatcctcac catcatcaca 50
286 <210> SEQ ID NO: 20
287 <211> LENGTH: 50
288 <212> TYPE: DNA
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
293 Oligonucleotide
295 <400> SEQUENCE: 20
296 gttcctgcat gggcggcatg aatcgaaggc ccatcctcac catcatcaca 50
299 <210> SEQ ID NO: 21
300 <211> LENGTH: 50
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
306 Oligonucleotide
308 <400> SEQUENCE: 21
309 gttcctgcat gggcggcatg aagcgcaggc ccatcctcac catcatcaca 50
312 <210> SEQ ID NO: 22
313 <211> LENGTH: 50
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
319 Oligonucleotide
321 <400> SEQUENCE: 22
322 gttcctgcat gggcggcatg aaacgttaggc ccatcctcac catcatcaca 50
325 <210> SEQ ID NO: 23
326 <211> LENGTH: 50
327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
332 Oligonucleotide
334 <400> SEQUENCE: 23
335 gttcctgcat gggcggcatg aacatgaggc ccatcctcac catcatcaca 50
338 <210> SEQ ID NO: 24
339 <211> LENGTH: 50
340 <212> TYPE: DNA
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/528,014A

DATE: 02/01/2005
TIME: 11:39:16

Input Set : A:\C481011.app
Output Set: N:\CRF4\02012005\I528014A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 25
Seq#:4; N Pos. 26
Seq#:16; N Pos. 30
Seq#:32; N Pos. 25
Seq#:34; N Pos. 30

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/528,014A**

DATE: 02/01/2005

TIME: 11:39:16

Input Set : **A:\C481011.app**

Output Set: **N:\CRF4\02012005\I528014A.raw**

L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0